

DEAL! BERG. C.A.

Methods for determining adulteration of human milk. Pediatria no.7:52-54 J1 '57.

1. Iz otdels gigiyeny Leningrauskogo nauchno-issledovatel'skogo pediatricheskogo instituts (dir. - prof. A.L.Libov)

(HIK-AHALYSIS AND SYAHINATION)

ALEKSANDROV, N.I., polkovnik med.sluzhby; GEFEN, N.Ye., polkovnik med.sluzhby; GARIN, N.S., podpolkovnik med.sluzhby; GAPOCHKO, K.G., podpolkovnik med.sluzhby; DAAL'-BERG, I.I., podpolkovnik med.sluzhby; SKRGEYEV, V.M., podpolkovnik med.sluzhby

Reactivity to and effectiveness of aerogenic vaccination against certain zoonoses. Voen.-med.zhur. no.12:34-38 \*D \*58. (MIRA 12:12) (VACCINES AND VACCINATION, against aerogenic zoonoses (Rus))

DA -W

ROGOZIN, Isnak Iosifovich, red.; BELYAKOV, V.D., red.; KOLOSTELEV, V.Ye., red.; MIKHAYLOVSKIY, V.T., red.; SOLODILOV, Ye.V., red.; LABEZOV, G.I., red.; SHURA-BURA, B.L., red.; DAAL'-BENG, I.I., red.; LEBEDEVA, Z.V., tekhn. red.

[Military epidemiology]Voennaia epidemiologiia. Leningrad, Medgiz, 1962. 135 p. (MIRA 15:11) (EFIDEMIOLOGY) (MEDICINE, MILITARY)

DAB-KOCIOL, J.

"Tasks of the technical intelligentsia in agriculture." p. 7 (Nowe Rolnictwo, Vol. 2, no. 8, Aug. 1953. Warszawa.)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress, Feb. 1954, Uncl.

DAB-KOCIOL, J.

"You Must Not Separate Professional Activity From Practical Tasks." p. 126 (Przeglad Geodezyjny. Vol. 9, no. 5 May 1953 Warszawa.)

Vol. 3, no. 6
SO: Monthly List of East European Accessions./Library of Congress, June 1954, Uncl.

DAB-KCCICL, J.

"Rural electrification in the light of resolutions adopted at the 9th Plenum of the Central Committee of the Folish United Workers Farty." p. 93. (<u>Frzeglad Elektrotechniczny</u>, Vol. 30, no. 3, Mar 54, Warszawa)

SO: Monthly List of East European Accessions, Vol 3 No 6 Library of Congress Jun 54 Uncl

# DAB\_KOCIOL,J.

National Forest and Afforestation Day. p.1

1AS POISKI. (MInisterstwo Lesnicta oraz Stowarzyszenie Naukowo-Techiczne Inzynierow i Technikow Lesnictwa i Drzewnictwa) Warszawa, Poland Vol.29, no.4 Apr. 1955

Monthly list of East European Accessions (EEAI) LC, Vol.9, no.2, Feb. 1960 Uncl.

# DAB-KOCIOL, J.

Together. p. 225. (PRZEMYSL DRZEWNY. Vol.7, no. 8, Aug. 1956, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957. Uncl.

DAF-MODION, J

Mifteen years of forestry in Cooplets Polard. p. 1.

OMUNN. (Mydział Mauk Rolniczych i Legrych Molskiej Akademii Mark i Polskie Towarzystwo Losne) Marszawa, Moland. Vol. 103, ro. ///, Kuto Wuly 1975.

Fortilly List of Best European Accessions (WMA) 50, Vol. 9, no. 1, Jan. 1960.

Ural.

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# DABAC. V.

Water supply through aqueducts in the eastern section of Croatia. p. 19. (GLASNIK, Vol. 1, No. 1/2, 1957

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, Dec. 1957 Uncl.

### DABAC, V.

Preparation for the construction of the Electric-power Plant in Zagreb. p. 348.

ENERGIJA. (Zajednica elektroprivrednih poduzeca Hrvatske i Institut za elektroprivredu u Zagrebu) Zagreb, Yugoslavia. Vol. 7, no. 10, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 6, June 1959. Uncl.

DABAC, Vlatko, inz. (Zagreb, Dvorniciceva ul. 20)

Scientific work in some industrial countries. Pt. 2.
Automacija Zagreb 2 no. 2/4:69-77 '62.

DABAC, Vlatko, inz.

Computing the pressure losses in electric conduits. Energija Hrv 11 no.3/4:95-96 '62.

1. Tehnicki urednik, "Energija".

KANASH, S.S., akademik; MAL'TSKY, A.M.; VLASOVA, N.A.; PASHCHENKO, Z.M.; ROZHANOVSKIY, S.Yu.; MAUYER, F.M.; MOKEYEVA, Ye.A.; KLYUYEV, G.A.; BURYGIN, V.A.; SHLEYKHER, A.I.; RUMI, V.A.; ROMAHOV, I.D.; AVTONOMOV, A.I., otv.red.; MUKHAMEDZHANOV, M.V., akademik, glavnyy red.; RYZHOV, S.N., akademik, zamestitel' glavnogo red.; ALIMOV, R.A., red.; DABADAYEV, A.D., akademik, red.; DZHALILOV, Kh.M., kand. ekon.nauk, red.; YEREMENKO, V.Ye., akademik, red.; ZAKIROV, K.Z., akademik, red.; MANNANOV, N.M., akademik, red.; NABIYEV, M.N., akademik, red.; SADYKOV, S.S., red.; TOGOYEV, I.N., kand.ekon.nauk, red.; YAKHONTOV, V.V., red.; KURANOVA, L.I., red.izd-va; RAKHMANOVA, M.D., red.izd-va; BARTSEVA, V.P., tekhn.red.

[Cotton] Khlopchatnik. Tashkent. Vol.3. [Structure and development of cotton] Stroenie i rasvitie khlopchatnika. 1960. 402 p.
(MIRA 13:10)

1. Akademiya nauk Uzbekskoy SSR, Tashkent. 2. Akademiki UzSSR (for Kanash, Mukhamedzhanov, Zakirov, Nabiyev). 3. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Kanash). 4. TSentral'naya selektsionnaya stantsiya Vsesoyuznogo nauchno-issledovatel'skogo instituta khlopkovodstva Uzbekskoy akademii sel'skokhozyaystvennykh nauk (for Kanash). 5. Tashkentskiy sel'skokhozyaystvennyy institut (for Mal'tsev, Shleykher). 6. Institut genetiki i fiziologii rasteniy AN UzSSR (for Vlasova, Mauyer, Klyuyev, Rumi, Romenov).

(Continued on next card)

KANASH, S.S. --- (continued) Card 2.

7. Sredneaziatskiy gosudarstvennyy universitet (for Pashchenko).

8. Institut botaniki AN UESSR (for Rozhanovskiy, Mokayeva, Burygin).

9. Chleny-korrespondenty AN UESSR (for Avtonomov, Alimov, Yeremenko,

Sadykov, Yakhontov). 10. Uzbekskaya Akademiya sel'skokhozyaystvennykh nauk (for Mukhamedzhanov, Ryzhov, Dadabayev, Yeremenko, Zakirov, Mannanov).

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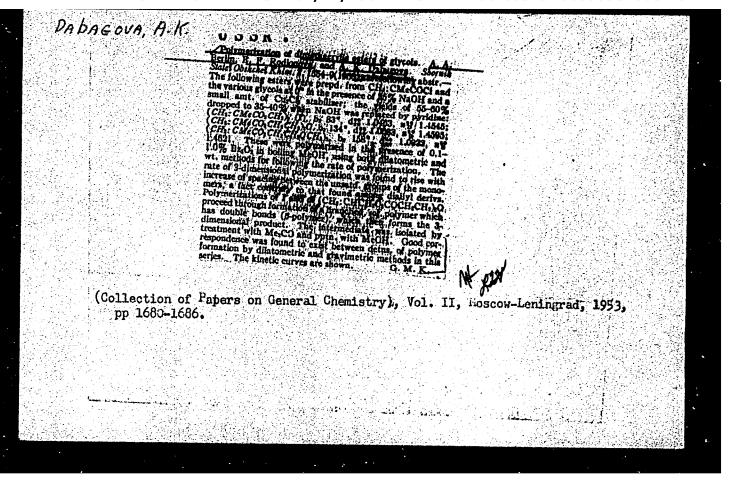
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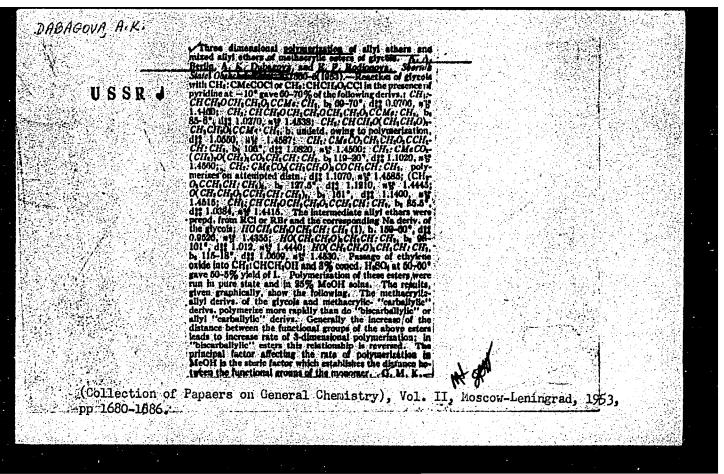
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DAPAGOVA, A. K., and ANDRIANOV, KI A.

"Silkones with electrolytic groups," a paper presented at the 9th Congress on the Chemistry and Physics of High  $P_0$ lymers, 28 Jan-2 Feb 57, Moscow, Organic Chemistry Research Inst.

B-3,084,395

20 119 6 26/56

AUTHORS:

Andrianov, K. A. Corresponding Member, Academy of Sciences

USSR, Dabagova A. K.

TITLE:

The Synthesis of Organisilicic Compounds Containing a Meth-

acryl Group (Sinter kremniyorganicheskikh soyedineniy

soderzhashchikh metakril nuyu gruppu)

PERIODICAL:

Doklady Akademii nauk SSSR: 1958, Vol. 119, Nr 6, pp.1149 1151

(USSR)

ABSTRACT:

In the present paper the former investigations (Ref 1) are developed. The compounds synthesized contain the mentioned group at the militon atoms: they are metharryl methyl alcoxy-

esilanes and mathacryl compounds (trie tetra and penta

silcuanes). The afore mentioned compounds are produced accord-

ing to a scheme;

clcH<sub>2</sub>s: (OR)<sub>3-x</sub>+CH<sub>2</sub> = c(CH<sub>3</sub>)cook -KCl > cH<sub>2</sub>=c(CH<sub>3</sub>)coocH<sub>2</sub>si(OR)<sub>3-n</sub> $(CH_3)_n$  $(cH_3)_n$ 

Card 1/3

20 119 6 26/56

The Synthesis of Organositioto Compounds Containing a Methacryl Group

where  $R = C_2H_5$ ,  $C_4H_9$  and s = 2; i; 0.

The properties of the produced compounds are shown by table 1. In order to obtain the mentagged methacryl compounds the reaction of the heterofunctional co-condensation of the aforeemantioned alcoxy silanes was investigated with dimethyl diacetoxysilane, furthermore with its hydrolysis products, as well as with trimathylacetoxystlane. The reactions are illustrated by formulae. It was found that this reaction proceeds easily and therewith the siloxane methacryl compounds form at about 20°C during separation of ethyl acetate, if ethyl sulfuric acid is used as ratalyst (with a minimum of 2 percent by weight of water). The properties of the produced compounds are shown by table 2. A detailed description of the synthesis is given in another paper (sent to "Izvestiya AS USSR, De. partment for Chemical Sciences"). The methacryl compounds synthesized are produced for the purpose of obtaining organo. silicio polymers, as well as block polymers. Then follows an experimental part with usual data. There are 2 tables and 1 reference, 1 of which is Soviet.

Card 2/3

ANDRIANOV, K.A.; DARAGOVA, A.K.

Polymerization of unsaturated organosilicon compounds. Vysokom. soed. 1 no.6:930-933 Je '59. (MIRA 12:10)

1.Institut elementoorganicheskikh soyedineniy AN SSSR.
(Silicon organic compounds)
(Polymerization)

BERLIN, A.A.; DABAGOYA, A.K.

Synthesis and polymerization of glycidylurethans. Vysokom.soed. 1 (MIRA 12:11) no.7:946-950 Jl 159.

1. Vsesoyuznyy nauchno-issledovateliskiy institut aviatsionnykh materialov.

(Urethans)

(Polymerization) (Glycidic acid)

1200

S/079/60/030/06/06/009 B002/B016

5 3830

AUTHORS:

Andrianov, K. A., Dabagova, A. K.

TITLES

Esterification of Bis(hydroxy-methyl)-tetramethyl-disiloxane by Means of Organic Acid Chlorides

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 6, pp. 1968-1971

TEXT: The properties of bis(hydroxy=methyl)-tetramethyl-disiloxane were investigated to find out whether the universal esterification methods may be applied to this compound. The stability of this compound was investigated by changing the conditions of synthesis. Bis(hydroxy-methyl)-tetramethyl-disiloxane was obtained from bis(acetoxy-methyl)-tetramethyl-disiloxane by treating it with methanol in the presence of HCl (for 72 hours at 200). The methyl acetate resulting in addition to the former and the excess of methanol were distilled from the acid reaction mixture or from the mixture previously neutralized by means of sodium bicarbonate. The content of hydroxyl groups and Si in the compound remained unchanged both in the neutralized reaction mixture and in the compound distilled off; both were stable for four months (no change of viscosity, no water

Card 1/3

Esterification of Bis(hydroxy-methyl)-tetramethyl-disiloxane by Means of Organic Acid Chlorides S/079/60/030/06/06/009 B002/B016

separation). The bis(hydroxy-methyl)-tetramethyl-disiloxane thus obtained was esterified with methacrylic acid chloride and allyl formic acid chloride. The reaction schemes are given. The starting material + allyl formic acid chloride gave bis(carbox -allylate-methyl)-tetramethyl-disiloxane (yield: 30%), whereas the rections starting material + allyl formic acid chloride + methacrylic ac.! chloride led to 1-methacrylate-methyl-2-carboxy-allylate-methyl-tetramethyl-disiloxane (yield: 19%). The poor yield is explained by the considerable tendency of the reaction products toward further polymerization. Polymerization with peroxy initiators proceeds very smoothly. Solid, vitreous polymers are formed. The properties of the substances synthesized are tabulated. The reactions are described in detail in an experimental part. There are 1 table and 1 non-Soviet reference.

X

Card 2/3

Esterification of Bis(hydroxy-methyl)-tetramethylodisiloxane by Means of Organic Acid Chlorides

s/079/60/030/06/06/009 B002/B016

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental-organic Compounds of the Academy of Sciences of the USSR)

SUBMITTED:

June 23, 1959

Card 3/3

ANDRIANOV, K.A.; DABAGOVA, A.K.; SYRTSOVA, Zh.S.

Mutual heterofunctional condensation of methyl (phenyl)acetoxysilanes with organosilicon compounds containing ethoxy group at the silicon atom. Izv. N. SSSR.Otd.khim.nauk no.9:1572-1577 S 162. (MIRA 15:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Silene) (Silicon organic compounds)

ANDRIANOV, K.A.; DABAGOVA, A.K.; KUZNETSOVA, I.K.

Synthesis of unsaturated phosphorooganosilicon compounds of the siloxane series. Izv.AN SSSR.Otd.khim.nauk no.9:1664-1666 S \*62.

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Silicon organic compounds) (Phosphorus organic compounds)

L 17364-65. PWP(a)/EWP(a)/EWP(a)/EWP(a)/EWP(a)/EWP(a)/EWP(a)/EWP(b) Po-4/FQ-4/FP-4/FQ-14 APPL/AS(np)/2/APWL(a)/ASD(a)-3/SSD/SSD(a)/ESD(gs)/ESD(c)

ACCESSION NR. AR4049283 PW/WE S/0081/64/000/016/S014/S614

SOURCE: Ref. 2h. Khimiya; Aba 16873

AUTHOR: Baygozhin; A. Sorgeyey, L.V. Dahacova, A.K., Fattakhov, S.G.

TITLE: Adhesion of methylmethacrylate to optical glass B

CITED SOURCE: Sb. Vy sokomolekul; soyedinentya; Adgeziya polimerov. M., AN SSSR, 1963, 75-78

TOPIC TAGS: organic polymer adhesion; polymer glass adhesion, glass surface effect, methylmethacrylate adhesive, oligomeric regin adhesive; optical glass.

TRANSLATION: The effects of modifications in the surface of polished optical glass; caused by treating it with viny) trichlorosilane (II), 2-cyclopropyl-1-frichlorosilyi-propane (II) or methacrylatemethylmethyldishoxysilane (III), were studied in order to determine the mechanism of sadhesion of organic polymers: Carefully degreased glass surfaces were modified by treating them, with solutions of 1 or II in benzene or a solution of III in an aqueous solution of HCOOH (pil 3 to 3.5). Strength of adhesion was determined from the tear strength of components glued with partially polymerized.

Cord. 1/2

L 17164-65 #

ACCESSION NR: AR4049263

methylmethacrylate oligomer resin (MOS) after the samples were maintained for 10 days at about 20C. The authors also studied a method of modifying glass surfaces by incorporating these modifying admixtures into the adhesive compound. It was demonstrated that the adhesion of MOS to glass increased by 250% after treatment with I and by 700% with III. It was increased by 100% in comparison to the untreated sample when III was added to the composition of MOS. Treatment with II did not improve adhesion. The improvement in adhesion when the glass surface was modified was explained in terms of a chemical bond forming between the adhesive and the glass it is noted that this procedure makes it possible to control strength of adhesion over a wide range. Z. Ivanova

SUB CODE: MT

ENCL: 00

Cord 2/2

ANDRIANOV, K.A.; DABAGOVA, A.K.; LEVKOVICH, Ye.A.

Synthesis of (chloromethyl) methylphenylchlerociline and its

derivatives. Izv.AN SSSR. Ser.khim. nc.1:97-100 166. (MIRA 19:1)

1. Institut elementoorganicheskikh soyedineniy 4N SSSR. Submitted September 2, 1963.

L 36993-66 EWP(1)/EWT(m)/T IJP(c) RM

ACC NR: AP6008503 SOURCE CODE: UR/0062/66/000/001/0097/0100

AUTHOR: Andrianov, K. A. Dabagova, A. K. Levkovich, Ye. A.

ORG: Institute of Heteroorganic Compounds, Academy of Sciences, SSSR (Institut C) elementoorganicheskikh soyedineniy Akademii nauk SSSR)

TITLE: Synthesis of (chloromethyl) methylphenylchlorosilane and its derivatives

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 1, 1966, 97-100

TOPIC TAGS: chemical synthesis, silane, polymerization

ABSTRACT: In this investigation the authors synthesize (chloromethyl)methyl-phenylchlorosilane from (chloromethyl)methyldichlorosilane and bromobenzene by Grignard's reaction. The yield of distilled (chloromethyl)methlphenyl-chlorosilane was about 50% of the theoretical. This compound usually reacts with ethanol to form (chloromethyl)methylphenylethoxysilane. The best yield of the new compound, about 90% of the theoretical, was observed when the reaction took place at room temperature. The reaction of (chloromethyl)methyl-phenylethoxysilane with potassium methacrylate yielded (methylmethacrylate)methyl-phenylethoxysilane. Its yield was 30% of the theoretical. This compound can be polymerized along the double C-C bond and enters into a condensation and cocondensation refraction owing to the presence of the ethoxy group at the silicon atom.

Card 1/2

UDC: 542.91+546.287

# L 36993-66

#### ACC NR: AP6008503

Polymerization occurs at low temperatures with a slow increase of viscosity with the formation of a vitreous polymer. By cocondensation of this compound with trimethylacetoxysilane in the presence of 10 wt.% conc. HCl the authors obtained 1-[ (methylmethacrylate)methylphenyl] trimethyldisiloxane. The reaction product is a transparent, almost odorless liquid polymerizing upon heating in the presence of peroxide initiators. The physicochemical properties of these compounds are given in a table. Orig. art. has: 3 tables.

SUB CODE: 07/ SUBM DATE: 02Sep63/ ORIG REF: 001/ OTH REF: 000

Card 2/2 /315

EWT(m)/EWP(j) L 24313-66 RM ACC NR: AP6009793 SOURCE CODE: UR/0062/66/000/002/0257/0262 3/ AUTHOR: Andrianov, K. A.; Dabagova, A. K. Golova, M. I. B ORG: Institute of Organoelemental Compounds, Academy of Sciences, SSSR (Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR) TITLE: The methacrylation of (chloromethyl) ethoxysilanes in the presence of catalytic amounts of acid SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 2, 1966, 257-262 TOPIC TAGS: chemical reaction, resction mechanism, organosilicon compound, siloxene ABSTRACT: The nucleophilic substitution of the chlorine of the C-chloromethyl group of ethozysilane with a methacrylic group was investigated. The reaction will go in the absence of solvents, but it proceeds more readily, giving high yields at lower temperatures, in the presence of catalytic amounts of HCl or organic acids. The proposed reaction mechanism -- formation of an intermediate reaction product with the acid catalyst and decomposition of this oxonium compound by heating -- was confirmed experimentally. The following new compounds were Card 1/2 UDC: 5և2.91+5և6.287

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ACC NR: AP6033183 SOURCE CODE: UR/0079/66/036/010/1848/1850

AUTHOR: Andrianov, K. A.; Dabagova, A. K.; Yanovakaya, N. S.

ORG: none

TITLE: Synthesis of methylethoxysilanes containing benzoate and terephthalate groups

SOURCE: Zhurnal obshchey khimii, v. 36, no. 10, 1966, 1848-1850

TOPIC TAGS: methylethoxysilane, benzoic acid, atlano-dominative, te:ephthalic acid, silane, derivative organization conformation

ABSTRACT: The five previously unreported organosilicon compounds containing acyloxymethyl groups were obtained by the reaction of potassiumbenzoate with the corresponding ethoxymethylchloromethylsilanes on heating in the presence of 3.3—3.9 wt% HCl, as a catalyst:

CICH<sub>2</sub>Si(CH<sub>3</sub>)<sub>n</sub>(OC<sub>2</sub>H<sub>5</sub>)<sub>3-n</sub> + C<sub>6</sub>H<sub>5</sub>COOK  $\xrightarrow{\text{HCI}}$   $\longrightarrow C_6H_5\text{COOCH}_2\text{Si(CH}_3)_n(\text{OC}_2\text{H}_3)_{3-n} + \text{KCI}$ 

(ia) n=2, (ib) n=0. and by the reaction of potassium terephthalate with ethoxydimethyl-chloromethylsilane in the presence of HCl:

Card 1/3 UDC: 546.287

**APPROVED FOR RELEASE: 07/12/2001** 

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ACC NR: AP 6033183	
$2ClCll_2Si(Cll_3)_2OC_2ll_5 + C_0ll_4(COOK)_2 \xrightarrow{HCl}$ $\longrightarrow C_0ll_4[COOCll_2Si(Cll_3)_2OC_2ll_5]_2 + 2KCl_3$	
Composition and physical constants of the new organosilicons are given in the table. Orig. art. has: 1 table [W.A. 50]	
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Card 2/3	]

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	CII3 C <sub>0</sub> II <sub>6</sub> COOCII <sub>2</sub> SiOC <sub>2</sub> II <sub>3</sub>	120—122° (2)		1.0269				235	· ·	
	C <sub>6</sub> II <sub>6</sub> COOCII <sub>2</sub> Si(OC <sub>2</sub> II <sub>3</sub> ) <sub>2</sub>	136—138 (2)	1.4770	1.0540	71.84	71.84	214	208		
	ĊIJ₃ C₀℧ℴℂΩΩℂℍℊՏℹ(Ωℂℊℍ <sub>ℴ</sub> )ℷ ℂℍ <sub>ℷ</sub>	128.5(2)	1.4680	1.0690	77,17	77.28	-	-		• -
	Colla COOCH2SIOC2H513	190—191 (2)	1.4820	1.0480	108.42	106.34	294	280.0		
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U3 CODE:	07/ SUBM DATE:	03Ju165/	l OPI	G RE	F	! 002	1	1		

YERMOLENKO, Valentin Mikhaylovich, aspirant; DABAGYAM, Areg Bagarah-akovich, doktor tekhn. nauk, prof.

Use of an electronic model in the study of transient processes in a train during the electric braking of the diesel locomotive. Izv. vys. ucheb. zav.; elektromekh. 7 no.5:5/4-553 164. (MIRA 17:9)

1. Kafedra dinamiki i prochnesti mashin Kharikovskogo politekhnicheskogo instituta.

DABAGYAN, A.V., kandidat tekhnicheskikh nauk.

Concurrent vibratiens ef reter parts in steam turbines. Energemashine-atreenie ne.6:7-10 Je '56.

(Steam turbines--Vibratien)

AUTHOR: Dabagyan, A.V. (Cand.Tech.Sci.) 110-7-6/30

TITLE: Vibration of the blading of a turbo-set caused by asymmetrical currents in the generator. (Vibratsii lopatochnogo apparata turboagregata, vyzvannye nesimmetriey tokov v generatore).

PERIODICAL: "Vestnik Elektropromyshlennosti" (Journal of the Electrical Industry), Vol.28, No.7, 1957, pp.18-22 (USSR).

ABSTRACT: The most common cause of failure of steam and water turbines is damage to the blading, usually by fatigue. It is usually supposed that most of the trouble is caused by vibration, and that the main causes of vibration are inequalities in the flow of the working medium. These propositions are generally true and they have been used greatly to reduce the amount of damage suffered by blading. They are, however, incomplete. Experiments carried out on blading of stages which had been subject to frequent failures showed that the natural frequency of the blades was different from multiples of the speed of rotation. The blades were found to vibrate only with certain conditions of generator load. Analytical investigations showed that with some asymmetrical loads on the generator the torque Card could be very complex. It was, therefore, of interest to 1/4 determine a mechanism by which blades are set in vibration

Vibration of the blading of a turbo-set caused by asymmetrical currents in the generator. (Cont.) 110-7-6/30

by forces acting on the generator rotor, and a special investigation for this purpose was made on a model from which, however, it was only possible to determine the mechanism of energy transfer. Experiments were then made on a dynamic model of a power system designed and manufactured in the Moscow Power Institute (MEI) under the guidance of Prof. V.A.Venikov. The object of the experiment was to determine the spectrum of the torque for various operating conditions of the generator and to elucidate the influence of transitional conditions of the generator on vibration of blades.

The experimental procedure is then described. The torques were measured by strain gauges fixed to the shaft between the generator rotor and the turbine. Measurements were nade with symmetrical and asymmetrical change in the working conditions of the system. Comparison of the torque in the two cases gave information about the cause of vibration. The second series of experiments was made to determine the vibration of blading during transitional processes in the electrical part of the system. In this case blades were installed on a special disc between the

Card 2/4

Vibration of the blading of a turbo-set caused by asymmetrical currents in the generator. (Cont.)110-7-6/30

generator rotor and the turbine. These blades were not acted upon by the working substance and their vibration was caused only by forces applied to their roots. The blades were designed to resonate with harmonics of the generator torque under asymmetrical conditions.

The measuring equipment is described. The oscillations of shaft and blading were measured by resistance strain gauges, amplified and recorded on an oscillograph. The circuit of the model transmission line is given in Fig.2, its parameters correspond to those of the Kuibyshev Power Station and the Kuibyshev to Moscow transmission line.

Two series of tests were made to determine the nature of the changes in the elastic torque. These were three and two-phase short circuits. The corresponding oscillograms are given in Fig.3. These show that only asymmetric short circuits cause a periodic component of torque. Fig.4 shows oscillograms of blade oscillation with a natural frequency of 100 c/s which shows that even under normal conditions the blade oscillates at its natural frequency, but only with small amplitudes. The amplitude is greatly increased by two-phase but not by three-phase short circuit.

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8(2)

307/161-58-4-1/28

AUTHOR:

Dabagyan, Areg Vagarshakovich, Candidate of Technical Sciences,

Docent

TITLE:

Equations for the Joint Electromechanical Vibrations of Rotors of Hydraulic Generator- and Turbogenerator Plants (Uravneniya sovmestnykh elektromekhanicheskikh kolebaniy rotorov gidro-

i turbogeneratornykh ustanovok)

PERIODICAL:

Mauchnyye doklady vysshey shkoly. Elektromekhanika i

avtomatika, 1958, Nr 4, pp 3-10 (USSR)

ABSTRACT:

On the basis of the method of Lagrange-Maxwell differential equations are derived here for the joint electromechanical processes resulting at different electrical methods of operation in the rotor. A system is investigated consisting of a hydraulic turbine with rotating blades, and a generator with salient poles and a damper winding. Multipolar machines are regarded as bipolar. In figure 1 the rotor is schematically represented in first approximation. The mass with the

moment of inertia I<sub>G</sub> simulates the rotor of the generator,

that with  $\boldsymbol{I}_{\boldsymbol{T}}$  the rotor of the turbine. The pendulums with the

Card 1/4

mass m, and the rigidity e, simulate the i-th blade at oscilla-

SO7/161-53-4-1/28 Equations for the Joint Electromechanical Vibrations of Rotors of Hydraulic Generator- and Turbogenerator Flants

> tion of it in the k-th tone. Since the determination of the blade frequency is still an undissolved problem the frequency is taken as presupposed. Thereby it is possible to simulate the blade by a system with only one degree of freedom. Such a model allows to determine the frequency spectrum of the joint oscillations of the system in the range of the selected blade frequency. This permits to state the difference between this spectrum and the spectrum of the partial frequencies of the blades and the electrical parts which are determined independently of it. The electrical part of the system is investigated as usual (Refs 1, 2). The motion-equations are formed according to the method of Lagrange-Maxwell. General coordinates for the motion of the mechanical system and general velocities for the electrical part of the system are selected. The motion energy, the potential energy, the dissipation function of Rayleigh and the general forces are determined or at least the equations are derived necessary for the determination of these values. For the derivation of the differential equations it was supposed that the rotor consists of two single masses connected together by an elastic massless shaft. - At

Card 2/4

507/161-58-4-1/28

Equations for the Joint Electromechanical Vibrations of Rotors of Hydraulic Generator- and Turbogenerator Plants

a steam- or gas turbine the number of rotor masses will be essentially greater. Accordingly, the number of equations is greater but principally the equations will not differ from the given ones. The higher frequency of the rotor of a hydraulic generator can be determined if the distributed shaft masses of the plant are considered. Besides the above mentioned equations in this case also the equation of the shaft with distributed parameters has to be considered in form of partial differential coefficients. A system of equations is received representing a further generalization of the equations of Park-Gorev. - If the electric coordinates are considered zero on derivating the formulas, equations are received, expressing the common oscillations of the rotor and the blades. If all mechanical coordinates with the exception of  $\gamma_{\text{C}}$ , are equal zero, the equations of Park-Gorev are received.  $\gamma_G$  is the angle of rotation of the longitudinal axis of the generator-rotor-winding against the axis of the A-phase. There are 1 figure and 5 references, 4 of which are Soviet.

Card 3/4

507/161-58-4-1/28

Equations for the Joint Electromechanical Vibrations of Rotors of Hydraulic Generator- and Turbogenerator Plants

ASSOCIATION: Kafedra dinamiki i prochnosti mashin Khar'kovskogo Politekhni-

cheskogo instituta

(Chair of Dynamics and Stability of Machines at the Khar'kov

Polytechnic Institute)

SUBMITTED: June 23, 1958

Card 4/4

#### DABAGYAN, A.V.

Refinement of the equation of shared electromechanical rotor oscillations of Francis-type hydraulic turbine generator units. Nauch.dokl. vys.shkoly; elektromekh. i avtom. no.1:52-59 159. (MIRA 12:11)

1. Rekomendovana kafedroy elektricheskikh mashin Moskovskogo energeticheskogo instituta.
(Turbogenerators--Vibration)

SOV/144-59-10-15/20

Dabagyan, A.V., Candidate of Technical Sciences, Docent AUTHOR:

An Analysis of Blade Failures of Hydro-alternator Fans TITLE:

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1959, Nr 10, pp 137 - 145 (USSR)

ABSTRACT: This article discusses the causes and effects of vibration on fan blades in alternators. Damage to fan blades occurred on 66-MW alternators of Swedish manufacture; the blade design is illustrated in Figure 1. The blades failed at the notch, above the root, and were replaced by new ones without notches, which have since operated satisfactorily. Tests were made at the Khar'kov Polytechnical Institute to find the causes of the trouble. Determinations were made of the natural frequency of the blades and the shape of the vibrations and of the stresses incurred by machining the notches. The test equipment with a blade in position is illustrated in Figure 2. Strain gauges were fixed to the blades at the positions shown in Figure 3. It was found that the fundamental frequency of the blades was about 100 c.p.s. and that the effect of the notch was to cause a stress concentration of 2.45 units. The centrifugal

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SOV/144-59-10-15/20

An Analysis of Blade Failures of Hydro-alternator Fans

stress was not greater than 200 kg/cm, which is quite safe, so that the blades could not have failed through static stressing. However, since the natural frequency of the blades was about 100 c.p.s. and the fractures were of fatigue character, it is reasonable to suppose that the cause of the fult was a periodic component of the alternator torque.

In a previous work, the author has shown that there is a 100-cycle component in the torque if the current loading of the alternator is not symmetrical but in the present case, the symmetry, if any, was small. In order to evaluate the 100-cycle component of the torque, tests were made on a large hydro-alternator. Two rods each with a natural frequency of 100 cycles were fixed to the coupling on the turbine shaft and their vibrations were recorded by means of strain gauges. A schematic diagram of the arrangement is shown in Figure 4. Oscillograms of the strain-gauge readings were taken at various alternator

Card 2/4 loadings and the 100-cycle stress in the rods was calculated.

SOV/144-59-10-15/20

An Analysis of Blade Failures of Hydro-alternator Fans

The method of calibrating the rod is explained and torque oscillations of the rotor were determined. The tests on these large hydro-alternators showed that even a small current asymmetry of the order of 2.5% can set up appreciable stresses in parts fixed to the rotor. Of course, the test rods were fixed to the coupling, whereas the blades that failed were directly attached to the generator rotor; therefore, a special model was made up to investigate combined oscillations of rotor and blades. It consisted of a heavy disc on a short shaft running freely between ball bearings. Four rods were fixed to the disc to represent the fan blades. Oscillations were set up by light taps, applied in a tangential direction either to the disc or to the rods and were recorded with strain gauges. Formulae are derived for the oscillations, and their values, as calculated from Eq (9), are compared graphically with the recorded oscillograms in Figure 5. It will be seen that agreement is good. These tests and calculations indicate that vibrations of blades fixed to a disc of large but finite

Card 3/4

DABAGYAN, A. V. Dr. Tech Sci — (diss) "Certain Vibration Processes in the Rotors of Turbo— and Hydrogenerator Devices During Unsymmetrical and Asynchronous Cenerator Operations," Khar'kov, 1960, 37 pp, 150 copies (Khar'kov Polytechnical Institute im V. I. Lenin) (KL, 47/60, 190-101)

8/143/60/000/009/007/007/XX A189/A025

AUTH(R:

Dabagyan, A.V., Candidate of Technical Sciences

TITLE:

On the Hydraulic Back Shock Caused by the Increased Closing Speed of

the Guide Unit

PERIODICAL: Energetika, 1960, No. 9, pp. 107 - 114

The author describes a method for calculating the hydraulic back shock TEXT: in the suction pipe of a low-head turbine. The method gives an approximate estimation of the degree of danger due to this shock at different closing speeds of the guide unit. Calculation formulas are given. Deformation oscillograms of turbine shaft and blades were taken from a hydroturbine in the DGES imeni V.I. Lenina (Russian: - the Dnepropetrovskaya Gidroelektricheskaya Stantsiya (Dnepropetrovsk Hydroelectric Power Plant). There are 3 figures and 3 Soviet references.

ASSOCIATION: Khar kovskiy politekhnicheskiy institut imeni V.I. Lenina (Khar kov

Polytechnical Institute Imeni V.I. Lenin)

SUBMITTED

March 28, 1960

Card 1/1

DABAGYAN, A.V., kand.tekhm.nauk, dots.

Equations of unsteady rotor oscillations of hydroelectric generating systems in asynchronous operation. Izv. vys. ucheb. zav.; energ. 4 no.2:20-26 F '61. (MIRA 14:3)

1. Khar'kovskiy politekhnicheskiy institut imeni V. I. Lenina. (Turbogenerators)

# DARAGYAN, A.V.; dotsent, kand.tekhn.nauk

Analysis of the equations of nonstationary oscillations of the rotors of hydrogenerator system in asynchronous operation. Izv. vys. ucheb. zav.; energ. 4 no.3:1-10 Mr '61. (MIRA 14:3)

1. Khar'kovskiy politekhnicheskiy institut imeni V. I. Lenina.
(Electric generators)
(Hydraulic turbines)

DABAGYAN, Areg Vagarshakovich, doktor tekhn.nauk, dotsent; KHATSINOVA, Ella Naumovna, inin.

> Concurrent electromechanical oscillations of the rotors of turbogenerators and hydrogenerators during steady state nonsymmetrical operation. Izv. vys. ucheb. zav.; elektromekh. 5 no.12:1408-1412 162. (MIRA 16:6)

1. Khar'kovskiy politekhnicheskiy institut (for Dabagyan).
2. Khar'kov'skiy zavod tyazhelogo elektromashinostroyeniya (for Khatsinova).

(Electric power distribution) (Turbogenerators)

DABAGYAN, A. V.; ROZENBERG, O. O.; SUSHCHUK\_SLYUSARENKO, I. I.; GERMAN, S. I.

Vibration strength of welded hydraulic turbine shafts determined by modeling. Avtom. svar. 15 no.11:37-43 N \*62. (MIRA 15:10)

1. Khar'kovskiy politekhnicheskiy institut imeni V. I. Lenina (for Dabagyan). 2. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni Ye. O. Patona AN UkrSSR (for Rozenberg, Sushchuk-Slyusarenko). 3. Khar'kovskiy turbinnyy zavod imeni S. M. Kirova (for German).

(Shafting-Welding) (Hydraulic turbines-Models)

1 50.584.65 (Fig. ) APrici 17/480(4)25/880/AFBFR/AFRO(p)/DABH(1)/880(6)/880(dp)/

ESD(v)/RAM(v) ACCESSION NR: AP4048690

8/0144/64/000/008/0971/0978

AUTHOR: Dabagyan, A. V.

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TITLE: Determination of the physical parameters of a transmitting system from the translant conductance function

SOURCE: IVUZ. Elektromekhanika, bo. 8, 1964, 971-978

TOPIC TAGES information transmission, information transmitting system information storage, information ratrieval, transfer function, linear system

ABSTRACT: To solve a series of practical problem it is necessary to determine the transfer functions of real linear systems. The parameters of which do not vary with time An approximate method is shown which permits the processing of results of rather ample experiments for the determination of transfer functions and consequently a differential equation of the transmitting systems Vanally such problem are see in the investigation of the properties of measuring discussions which problem are specified in adjusting channels which form open circuits; closed loops of parties of measuring channels which form open circuits; closed loops of

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# L 8458-65 ACCESSION NR. AP4048890

automatic control systems; electrical and machanical filters, in the investigation of oscillations of electrical electro-machanical and elastic systems. Primarily, all of these systems can be separated into two groups -- into transmitting systems without feedback and systems with feedback. As a transmitting system without feedback and systems with feedback. As a transmitting system without feedback; the direction of a massuring channel is investigated. The peculiarity of measurement devices intended only for the gathering of information is the directional framewhaten of information is the directional framewhaten of information artiving at the input. If in such system energy processes, related to the transmission of information is compared to the input of soot transmitted to one of the preceding system along for its transmission; is not transmitted to one of the preceding system can elements from the pulpht of soot transmitted to one of the preceding system along the pulpht of soot transmitted to one of the preceding system can element from the sputput of soot transmitted to one of the preceding system along the pulpht of soot transmitted to one of the preceding system of countries from the system. An equation is designed which expresses in the system in the system. An equation is designed which expresses in the system in the system an equation is designed on least equation; and the system to parameters in the system; such of which is a larger to sequential approximation; to parameter yellows such of which is a larger to sequential approximation to parameter yellows such of which is a larger to sequential approximation to parameter yellows such of which is a larger to sequential approximation to parameter yellows such of which is a larger to see the corrections.

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Card 8/3						

DABAGYAN, A.V., doktor tekhn. nauk, prof.

Unit for fatigue tests of large shaft models for indraults turbines and hydraulic generators. Vest. mashingstr. 44 no.5838-41 My 164.

(MIRA 1736)

DABAGYAM, Areg Vagarshakovich, doktor tekim, nauk, prof.

Determination of the physical parameters of a transmitting system using the function of the transfer conductance. Inv. vys. ucheb. zav.; elektromekh. The 8:971-978 | tea. (HPA 17:10)

1. Khar'kovskiy politekhnicheskiy institut.

8/137/62/000/001/079/237 A060/A101

AUTHORS:

Piryazev, D. I., Golubov, M. M., Dabagyan, I. P., Timofeyev, D. I., Meleshko, A. M., Kovynev, M. V.

TITLE:

The roll separating force of the metal and the loading of the main motors in the course of rolling on the thick sheet mill 2800

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 4 - 5, abstract 1D21 ("Sb. tr. Ukr. n.-i. in-t metallov", 1961, no. 7, 165 - 177)

TEXT: The authors studied the power conditions for rolling at the thicksheet mill 2800 of the Plant imeni Voroshilov. The mill is designed for rolling sheets with thickness 6 - 50 mm, width 2,500 - 2,600 mm. It consists of a stand with vertical rolls, a roughing two-high stand with working rolls 1,150 mm dia, a universal finishing four-high stand 800/1400. The stands are arranged in a sequence. The roll separating force of the metal in the roughing and the finishing stands was measured by means of force meters with wire tensometers. The force meters were welded to the pedestals of the working stands on the side of drive. The pulses from the tensometers were recorded by a magnetoelectric oscillograph  $\Pi OB$  -14 (POB-14). A calculation of the forces from the torque was

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The roll separating force of ...

S/137/62/000/001/079/237 AC60/A101

carried out to verify the values determined by the force meters. The mean pressures were calculated from the total forces obtained experimentally. Simultaneously with the measurement of the forces, the operation of the main drive motors was oscillographed. The oscillograms recorded the current, voltage, and the number of revolutions of the motors. The investigations have demonstrated that:

1) the separating force of the metal on the rolls of the four-high stand is, in all the cases investigated, below the admissible; 2) the closest agreement with the experimental data is given by the values of the mean pressures as calculated by the Golovin-Tyagunov method; 3) the main motors of the mill 2800 are not utilized to full capacity.

G. Grigoryan

[Abstracter's note: Complete translation]

Card 2/2

S/137/60/000/011/017/043 A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 11, p. 117, # 26141

AUTHOR:

Dabagyan, N.P.

TITLE:

Measuring the Pressure of the Metal on Blooming and Sheet-Rolling

Mill Rolls

PERIODICAL:

Tr. Mezhvuz, nauchno-tekhn, konferentsii na temu: "Sovrem.dostizh, prokatn proiz-ve" Vol. 2 Ioningrad 1050 - 700 700

prokatn. proiz-va", Vol. 2, Leningrad, 1959, pp. 380 - 386

TEXT: The author investigated experimentally the metal pressure on the rolls, voltage and revolution of motors when rolling on blooming and sheet rolling mills, in order to intensify and rationalize reduction conditions. It was found that when rolling sheets on a 2250 mill, the force in various passes fluctuates within 889 - 1,895 tons. This causes non-uniform motor loads and increases undulation and corrugation of the sheets. The author determined the dependence of metal pressure on the rolls on temperature during the rolling of sheets of differ-

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S/137/60/000/011/017/043 A006/A001

Measuring the Pressure of the Metal on Blooming and Sheet-Rolling Mill Rolls

ent thickness. The metal pressure on the blooming mill varies within 500 - 1,600 tons, a maximum is reached in 3 - 6 passes. New reduction conditions were recommended, assuring a more uniform loading of the mill over the passes. This raised the efficiency of the sheet rolling mill by 5 - 10% and that of the blooming mill by 4.5 - 8%.

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L. M.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

DABAGYAN, N.P.; CHUB, V.M.; TIMOFEYEV, D.I.; SHUL'GA, Ye.A.

Pack rolling of large-size, two-layer steel plate. Met.i gornorud.prom. no.5229-33 S-0 '62. (MIRA 1 (MIRA 16:1)

Ukrainskiy institut metallov (for Dabagyan, Chub).
 Kommunarskiy metallurgicheskiy zavod (for Timofeyev, Shul'ga).
 (Rolling (Metalwork)) (Plates, Iron and steel)

FILIPPOV, I.N.; GUNIN, I.V.; Prinimali uchastiye: DABAGYAN, N.P.; CHETVERIKOV, A.V.; MIROSHNICHENKO, V.G.; FRADIN, M.D.; PAVLOVSKIY, V.Ya.; FILICHAKOVA, V.A.; ALEKSANDROVA, L.A.; DUBROVIN, F.S.

Investigating the buckling of webs on lightweight I-beams. Stal' 23 no.10:915-918 0 '63. (MIRA 16:11)

1. Ukrainskiy institut metallov. 2. Ukrainskiy institut metallov (for Dabagyan, Chetverikov, Miroshnichenko). 3. Zavod "Azovstal" (for Fradin, Pavlovskiy, Filichakova, Aleksandrova, Dubrovin).

BR

ACCESSION NR: AP4043485

S/0133/64/000/008/0718/0721

AUTHOR: Dabagyan, N.P., Chub, V.M., Timofeyev, D.I., Khoroshilov, N.M., Loktionov, P. Ya., Shul'ga, Ye. A.

TITLE: Experiences in the production of two-layer sheet steel at the Kommunar metallurgical plant

SOURCE: Stal', no. 8, 1964, 718-721

TOPIC TAGS: steel rolling, rolling mill, sheet steel, two layer sheet steel, pack rolling, steel cladding, cast cladding, bimetal, clad steel

ABSTRACT: In a discussion of the pack-rolling of two-layer sheet steel, introduced in 1963 at the Kommunar plant, the authors specify the difficulties encountered in the previous cast-cladding process and indicate that higher technological efficiency and production on a much larger scale can be achieved with the new process without affecting the high quality of the product. To produce two-layer sheets, symmetrical four-layer packs whose size is prescribed by nomograms are assembled from the basic steel plates a, cladding plates b, and interlayers c, as shown in the Enclosure. The equations from which specifications of the pack components are found, the necessary nomograms and the details of the process are presented. An interlayer distribution curve for carbon, chromium and nickel in a Cord 1/3

ACCESSION NR: AP4043485

bimetal prepared by the pack-rolling process is shown. The diffusion of the elements was investigated by metallographic, electron microscopic and layer-by-layer spectral and chemical analyses, and by means of C14. From the nomograms, pack specifications for two-layer 8-25 mm thick 20k + Kh17N13M2T steel sheets can be calculated, including the proper upper-to lower plate thickness ratio. This ratio (optimally about 1.08), designated the coefficient of equithickness, is introduced into the calculations to offset nonuniform metal expansion due to a temperature gradient across the pack during heat treatment. To reduce this effect, the temperature in the upper, lower and tempering section of the furnace is held at 1340-1360, 1320-1340, and 1240-1220C, respectively. Orig. art. has: 5 figures, 1 table and 4 formulas.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy institut metallov (Ukrainian Scientific Research Institute of Metals); Kommunarskiy metallurgicheskiy zavod (Kommunar Metallurgical Plant)

SUBMITTED: 00

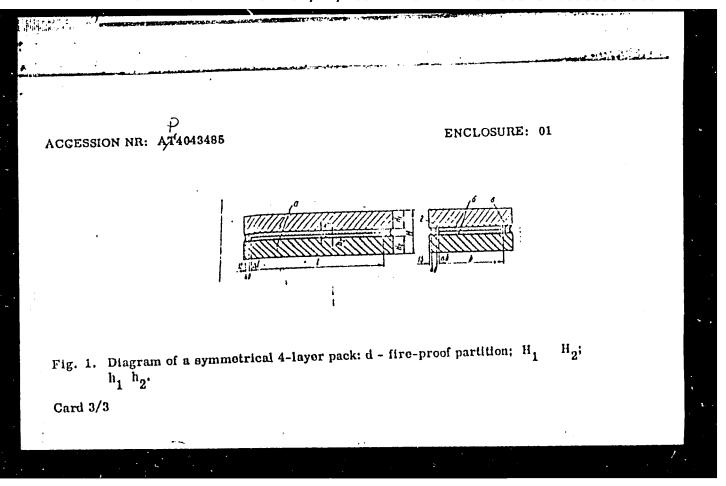
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Card 2/3



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SOURCE: Ref. sh. Matallurglys Abs. 41350 S

AUTHOR: Dabagyan, N.P.; Sagitov, O.A.; Baraiy, V.K.; Dodoks, L.I.

TITLE: Structure and properties of a three-layered Kn18N97+St3sp. Akhl8N97-steel

CITED SOURCE: Sb. iff DKN: n.F. installation, vyp. 10, 1964, 210-215

TOPIC TASS: metal cladding, metalamechanical property, steel

TRANSLATION: The Steel was prepared by casting stainless slabs into moke and schaseouently rolling the three-layered ingota, The untrimmed sheet had a width of 1100 mm. overall thickness of 5:0-6:0 mm, and bladding thickness of 0.75-0.85; The chanical composition of the steel was as follows (in 8) Khigaya-0.09:C, link by 10:55 Ni; 17:66 Cr. and 0:50 Tij Step. 2, 7020 C; 0.52 km; 0:16 Si. The mechanical properties of cross sectional mn tongitudinal specimens were as follows; respectively: 0; 8:56 Si and 8:7.8 kg/mm; 10:40 cg. 0.55 Sm and 0:740; cg. 30:0 mm 39:0 kg/mm and ojo 27 mm 28:28. The blad steel behaved like a homogeneous metal when cold

Card: 1/2

58363-65 CCESSION NR: AR50	) <u>18</u> (2)			
	re variables. The co	imum mathod of heat t	reatment of the stee	
a naveallestion f	min 90090 For 5 Milb	which gives the clad	Tayer satisfactory is	
sistance to intergr		id the fallowing ungul /mm op/g = 0.080-0	720 (, • 22.0-29.5 )	
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intermity diagothic	ted carnings of Crs	the structure of the	pase matal consists	OT
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L 63080-65 ACCESSION NR: AM5015185

Kh18N97 + Zsp steel produced by the method of electric flux welding with the use of a fleable welding orifice (ferrite variant). It was established that two and three layer steels produced by sandwich rolling and cast cladding correspond generally to the structure of steels of analogous trands. Changes in the metals of the cladding and base layers occur only within a narrow interval near the separation boundary. Two layer steels; produced by electric flux welding consist in fact of three metal layers; the cladding bransition, and base layers. The transition layer (the former electric flux seas) consists of martensite, toward whose needles the carbides and carbonitrides are oriented. The presence of the transition zone is the reason for the brittleness of the binetal investigated and for the unsatisfactory results of bending tests. By a layer-by-layer spectral analysis; curves were obtained for the distribution of carbon, chromins, and nickel'in the cladding and base layers of the steels investigated. The distribution of two layer steels produced by sandwich rolling is considerably lower than that of steel produced by the electric flux method; this is a result of the absence of a zone of brittle components at the separation boundary of the layers I, Tulupova.

SUB CODE: MM

Card 2/2

ACC NRI AP7000597 (V) SOURCE CODE: UR/0129/66/000/011/0055/0058

AUTHOR: Dabagyan, N. P.; Nikitina, O. I.; Ivanova, N. K.; Chub, V. M.

ORG: Ukrainian Scientific Research Institute of Metals (Ukrainskiy nauchnoissledovatel'skiy institut metallov)

TITLE: The influence of nickel-interlayer thickness on the structure and properties of clad steel

SOURCE: Metallovedeniya i termicheskaya obrabotka metallov, no. 11, 1966, 55-58

TOPIC TAGS: metal joining, bimetal, nickel plating, metal cladding, steel /Kh18N10T steel, Kh17N13M2T steel

ABSTRACT: The thickness of a nickel interlayer plays a major role in promoting or inhibiting diffusion processes at the boundaries of metal joints and affects the properties and structure of the boundary zone. To determine this effect with respect to the strength of the joint and the structure of the bimetal, investigations were carried out on specimens made from laboratory and industrial clad steel.

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UDC: 669. 24:669. 14. 018:8114

# ACC NR: AP7000597

The laboratory test pieces were made of rolled packs of Kh18N10T and St. 3sp types of steel with and without nickel interlayer, the thickness of the interlayer being 10, 25, 40, 65, and 90 microns. The tests were conducted for shear and tensile strength, notch toughness, cohesion strength, metallographic investigations, and spectrum analysis. The industrial test pieces were made of 10-14-mm-thick clad-steel sheets with a cladding layer of Kh17N13M2T steel, and basic layer from 20K type steel wiithout ant with nickel plate of a thickness of 25-30, 40, 50, 65, and 90 microns. The cohesion strength of both layers is found to increase as the thickness of the nickel interlayer is increased. The latter also affects diffusion at the metal layer interface and as a result the hardness and microhardness, as well as changes in the concentration of alloying elements. The maximum carbon consentration is found to be inversely proportional to the thickness of the nickel interlayer. The same is observed with respect to carbon diffusion. In steel clad without interlayer, there occurs complete decarbonization of the boundary layer of the noncarbon steel. A nickel interlayer lowers decarbonization of the boundary layer of St. 3sp steel and hinders the enrichment of the cladding steel in carbon.

SUB CODE: 11/SUBM DATE: none/

[KP]

Card 2/2

AUTHOR:

Dabagyan, N. V.

20-119-2-57/60

TITLE:

The Role of the Mesenchyme in the Development of the Pigment-Epithelium of the Eye in Acipenser gueldenstaedti (Rol mezenkhimy v razvitii pigmentnogo epiteliya glaz

osetra)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 2, pr. 391-394 (USSR)

ABSTRACT:

As is known the capacity of regeneration of a lost retina is absent in all examined vertebrates in adult age. One exception is Triton, in which the retina may be regenerated from transformed cells of the pigment epithelium (ref. 15). With other vertebrates the outer layer of the embryonic eyecup may also develop to the retina (refs. 4,7,9,10, 12-14). It has been found with amphibia, that the contact of the cells of the rear wall of the eye with mesenchyme cells favor conditions for the accumulation of pigment grains in the pigment epithelium (refs. 4-8). It is the purpose of the present work to investigate the mechanisms of the processes of differentiation of the outer and inner eyecup layers of the T. embroyos of the sturgeons Acipenice gueldenstaedti Brandt. The

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The Role of the Mesenchyme in the Development of the Pigment-Epithelium of the Eye in Acipenser gueldenstaedti

20-119-2-57/60

experiments were carried out at the stage of the optic vesicle (25.-26 stage according to ref. 2). The mesenchyme was easily removed from the vesicles, whereafter 33 vesicles were homoplastically transplanted: I. Series into the pericardium cavity and into the body cavity; II. Series - under the skin, into the gill cavity and to the somite of the embryos of the same age as the donor. In the first series the grafts should be missing mesenchymic surroundings, in the second series, however, be completely surrounded by it. The eyes of the graft carrier served as control (fig. 1). They are described in full detail. Results of both series of experiments are illustrated in table 1. They make it possible to draw some conclusions: 1. The eye rudiments of the said stages (eye vesicle) are able to develop in the ordinary way (formation of a 2--layer eyecup, of a pigment epithelium and of a retina) as well as to be transformed into a single layer by entirely becoming a retina. 2. For a normal development of the eye together with the formation of the pigment epithelium it is necessary that the eye rudi ment is surrounded by the mesenchyme. Without the surroundings of a mesenchyme the

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20-119-2-57/60

eye rudiments develop entirely into a retina. These data achieved with sturgeons agree with those of the amphibia and mammals (refs. 4-7,9). The kind of mesenchymic surroundings bears influence on the character and the degree of pigmentation of the pigment epithelium. Finally the structure and the development of the retina and of the pigment epithelium of the normal eye and of the eye transplanted to various parts of the body are described. There are 3 figures, 1 table and 15 references, 9 of which are Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED:

December 13, 1957, by I. I. Shmal'gauzen, Member, Academy

of Sciences, USSR

SUBMITTED:

December 10, 1957

Card 3/3

DABAGYAN, M. V., Cand of Bio Sci -- (diss) "Regenerative Abilities and Laws for the Development of Eyes in Emeryoes of Sturgeon,"

Moscow, 1959, 14 pp (Moscow State Univ im Lomon)sov) (kL, 2-60, 111)

17(4) AUTHOR:

Dabagyan, N. V.

507/20-125-4-70/74

TITLE:

Regulatory Properties of the Eye in the Embryos of Acipenseridae (Regulyatsionnyye svoystva glaz zarodyshey osetrovykh ryb)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 4, pp 938-940

(USSR)

ABSTRACT:

At the time of their formation (optic vesicle stage) all parts of the eye rudiment of Acipenseridae can develop as well into the retina as into a pigment epithelium. The formation of the latter occurs if the optic vesicles are enclosed by the mesenchyme (Ref 2). In this respect the eye rudiments of Acipenseridae do not differ from those of amphibia (Refs 5,6), birds (Ref 9) and mammals (Ref 8). The question is still unsolved within what lapse of time the material of the ectoderm can change into the retina and that of the entoderm under altered conditions of development into pigment epithelium. In order to solve this question experiments were made on the embryos of Acipenser gueldenstaedti and of Ac. stellatus. In the Ist series of experiments whole optic cups were transplanted into the pericardial cavity. In the IInd series of experiments the inner layer of the optic cup was transplanted under the ectoderm of the head, in the region of the auditory vesicle so

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that it was completely enclosed by the mesenchyme. From the results of the 1st and 11nd series (Fig 1 a,b, 1 v) it becomes evident that the eyes of Acipenseridae (just like those of amphibia) early loose the capacity of redifferentiation of the retina (Ref 3). In the IIIrd series of experiments the inner layer of the optic cup with the lens was transplanted into the pericardial cavity, where there is no free mesenchyme. All grafts developed into retina. With respect to the lens the layers of the latter were normally oriented. This series can be considered as a control of series II. In the IVth series the outer layer of the optic cup was as far as possible cleaned of mesenchyme cells, segmented off, and transplanted into the pericardial cavity. In that case all layers of the retina were also developed. The photoreceptors were oriented towards the pericardial cavity. The results obtained show that both in the stage of the optic vesicle and of the optic cup the eye rudiment is strongly influenced by the surrounding mesenchyme. Outside of this influence pigment epithelium is never formed and the eye rudiment is able to develop entirely in the direction of the retina. In this respect the eyes of Acipenseridae are

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similar to those of amphibia (Ref 6) and differ somewhat from those of mammals, where this rule shows certain exceptions (Ref 8). The capacity of the retina to form rigment epithelium is already markedly reduced at the moment before it separates into layers, as this is the case in amphibia and birds (Refs 3,9). However, the pigment epithelium is still capable of changing at this stage. If mesenchyme surroundings and blood are lacking it becomes the retina. In this respect the eyes of Acipenseridae are similar to those of amphibia, birds, and mammals. There are 1 figure and 11 references, 8 of which are Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

PRESENTED:

November 20, 1958, by I. I. Shmal gauzen, Academician

SUBMITTED:

November 18, 1958

Card 3/3

DABAGYAN, N.V.; ZHILOVSKIY, N.I.; KRUGLOV, S.S.

Microfauna and the stratigraphic position of the Shipot and Yalovetsk series of the Eastern Carpathians. Trudy UkrNIGRI no.5:106-124 163. (MIRA 18:3)

DABAGYAN M.V.; MYATLYUK Ye.V.; PISHVANOVA, L.S.

New data on the stratigraphy of Tertiary deposits of Transcarpathia on the basis of a study of Foraminifera. Geol. sbor. [Lvov] no.2/3:220-236 56. (MLRA 10:3)

1. Ukrainskiy vsesoyuznyy nauchno-issledovatel'skiy geologo-razvedochnyy neftyanoy institut. L'vov.

(Transcarpathia--Foraminifera, Fossil)

KUL'CHITSKIY, Ya.O. [Kul'chyts'kyi, IA.O.]; ZHILOVSKIY, N.I. [Zhylovs'kyi, M.I.]; DABAGYAN, N.V. [Dabahian, N.V.]; MAKSIMOV, A.V. [Maksimov, O.V.]; KHIOPONIN, K.L.

Stratigraphy of Paleocene and Eccene eastern Carpathian Mountains[with summary in English]. Dop. AN URSR no.3:310-314 '58. (MIRA 11:5)

l. Ukrains'kiy viddil Vsesoyuznogo naukovo-doslidnogo geologorozviduval'nogo naftovogo institutu. Predstavleno akademikom AN USSR O.S. Vyalovym. (Garpathian Mountains-Geology, Stratigraphic)

Trudy	Eccene Foraminifer UkrNIGRI no.1:130- (Carpathian Mounts	-138 '59•	(MIRA 12	Carpathians.

#### DARAGYAN, N.V.

Regeneration of the retina in the eyes of sturgeon embryos. Zhur. ob.biol. 21 no.1:48-53 Ja-F '60. (MIRA 13:5)

1. Chair of Embriology, Moscow State University.
(RETINA) (STURGEONS) (REGENERATION (BIOLOGY))

#### DABAGYAN, N.V.

Foraminifers from Oligocene sediments in the vicinity of Uzhka (Uzh River) in the Eastern Carpathians. Paleont. sbor. [Lvov] no.1:97-104 '61. (MIRA 15:9)

l. Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy
institut, L'vov.
(Uzh Valley (Carpathian Mountains)--Foraminifera, Fossil)

VYALOV, O.S., akademik; DABAGYAN, N.V.; KUL'CHITSKIY, Ya.O.

Recent data on the age of the Shipot and Dusino series in the Eastern Carpathians. Dokl. AN SSSR 142 no.4:896-899 F 162. (MIRA 15:2)

1. Institut geologii poleznykh iskopayemykh AN USSR i Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy institut. 2. AN USSR (for Vyalov).

(Chernogora Range region—Geology, Stratigraphic) (Svalyava region—Geology, Stratigraphic)

VYALOV, O.S., akademik; DABAGYAN, N.V. [Dabahian, N.V.]; VITRIK, S.P. [Vitryk, S.P.]; SHAKIN, V.A.

"Svalyava 1" a deep borehole in the Pieniny (Cliff) zone of the Carpathians. Dop. AN URSR no.5:631-635 '63. (MIRA 17:9)

1. Institut geologii goryuchikh iskopayemykh AN UkrSSR.

2. AN UkrSSR (for Vyalov).

DABAGYAN, N.V., [Dabahian, N.V.]; KULLCHITSKIY, Ya.O. [Kullchyes'kyi, 1A.O.];
LOZYNYAK, P.Yu. (Lozyniak, F.10.]

Cretaceous sediments in the Krosno zone of the Ukrainian
Carpathians in the Gorgan region. Pop. AN U.SR no.1:87-90
(MISA 18:1)

165.

1. Ukrainskiy nauchno-issledovatelickiy geologorazyedochnyy institut. Predstavleno akademikom AN Hanna P.J. Vyelovym.

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DABAGYAN, V., kand.tekhn.nauk

"Fundamentals of metal cutting by "M.V.Kas'ian, I.A.Ter-Azar'ev.
Reviewed by V.Dabagian.

(Metal cuttir') (Kas'ian, M.V.)

(Tor-Azar'ev, I.A.)